## **CLAIMS**

## What we claim is:

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- 1. A short interfering RNA (siRNA) molecule that down-regulates expression of hepatitis B virus (HBV) RNA, wherein said siRNA comprises nucleotide sequence complementary to said HBV RNA or a portion thereof.
  - 2. The siNA molecule of claim 1, wherein said siRNA molecule is double stranded.
  - 3. The siRNA molecule of claim 2, wherein each strand of said siRNA comprises about 21 nucleotides.
- 4. The siRNA molecule of claim 2, wherein each strand of said siRNA comprises a 3'-nucleotide overhang.
  - 5. The siRNA molecule of claim 4, wherein said 3'-nucleotide overhang comprises two nucleotides.
  - 6. The siRNA molecule of claim 1, wherein said siRNA molecule is single stranded.
- 7. The siRNA molecule of claim 1, wherein said siRNA molecule comprises one or more chemically modified nucleotides.
  - 8. The siRNA molecule of claim 7, wherein said chemically modified nucleotide is a 2'-O-alkyl nucleotide.
  - 9. The siRNA molecule of claim 8, wherein said 2'-O-alkyl nucleotides is a 2'-O-methyl nucleotide.
- 20 10. The siRNA molecule of claim 8, wherein said 2'-O-alkyl nucleotides is a 2'-O-allyl nucleotide.
  - 11. The siRNA molecule of claim 7, wherein said chemically modified nucleotide is a 2'-deoxy-2'-fluoro nucleotide.
- 12. The siRNA molecule of claim 7, wherein said chemically modified nucleotide is a 2'-deoxy nucleotide.

- 13. The siRNA molecule of claim 7, wherein said chemically modified nucleotide comprises one or more phosphorothioate internucleotide linkages.
- 14. The siRNA molecule of claim 7, wherein said chemically modified nucleotide is a 2'-O-alkyl nucleotide, 2'-deoxy-2'-fluoro nucleotide, 2'-deoxy nucleotide, phosphorothioate containing nucleotide, or any combination thereof.

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- 15. The siRNA molecule of claim 7, wherein said siRNA comprises one or more 2'-O-alkyl and one or more 2'-deoxy-2'-fluoro nucleotides.
- 16. The siRNA molecule of claim 7, wherein said siRNA comprises one or more 2'-deoxy and one or more 2'-deoxy-2'-fluoro nucleotides.
- 10 17. The siRNA molecule of claim 1, wherein said siRNA comprises a terminal cap modification.
  - 18. The siRNA molecule of claim 17, wherein said terminal cap modification comprises an inverted abasic moiety.
- 19. The siRNA molecule of claim 17, wherein said terminal cap modification is at the 3'-end of said siRNA.
  - 20. The siRNA molecule of claim 1, wherein said siRNA is conjugated to a biologically active molecule.
  - 21. The siRNA molecule of claim 20, wherein said siRNA molecule is conjugated to said biologically active molecule via a biodegradable linker.
- 20 22. The siRNA molecule of claim 20, wherein said biologically active molecule comprises a vitamin.
  - 23. The siRNA molecule of claim 20, wherein said biologically active molecule comprises an antibody.
- 24. The siRNA molecule of claim 20, wherein said biologically active molecule comprises a hormone.